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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,471	11/03/2003	Jeong-Rok Kim	8733.934.00-US	1848
30827 7590 03/21/2007 MCKENNA LONG & ALDRIDGE LLP			EXAMINER	
1900 K STREE	T, NW		CHUNG, DAVID Y	
WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
	•		2871	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/698,471	KIM ET AL.			
Office Action Summary	Examiner	Art Unit			
	David Y. Chung	2871			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on 13 L This action is FINAL. Since this application is in condition for allowed closed in accordance with the practice under 	s action is non-final. ance except for formal matters, pro				
Disposition of Claims					
 4) Claim(s) 14-17 is/are pending in the application. 4a) Of the above claim(s) 14 and 15 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 16 and 17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers	,				
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin	cepted or b) objected to by the lead of a drawing(s) be held in abeyance. See ction is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	(~1	(DTO 440)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>See Continuation Sheet</u>. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :07 September 2006, 29 August 2006 and 14 August 2006.

Application/Control Number: 10/698;471

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Invention II in the reply filed on December 13, 2006 is acknowledged.

Claims 14 and 15 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on December 13, 2006.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claim 16 rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki (U.S. 6,573,972).

Sasaki discloses a liquid crystal display having two seal patterns. Note in figure 8A, the primary seal pattern 13 and secondary seal pattern 12. See column 14, lines 25-41. Sasaki discloses forming the seal patterns by dispensing proper materials from

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the nozzle of a dispenser. See column 14, lines 42-47. A dispensing method would have inherently required a table to support the substrate and a support over the table to which the dispenser is fixed.

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Sasaki does not disclose a first printer for forming the first seal pattern and a second printer for forming the second seal pattern. Sasaki discloses that the seal pattern 13 is formed from epoxy-system thermosetting resin and that the seal pattern 12 is formed from an acrylic-system UV-curing resin. See column 14, lines 52-55.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to provide two different seal printers since the two seal patterns are made from different kinds of resin, and sequentially providing each type of resin to one seal printer would have been inefficient.

Sasaki does not disclose multiple sealant dispensers. However, it is was well known that providing multiple dispensers for forming a single seal pattern was faster and more efficient than only providing a single dispenser. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention provide multiple dispensers because it was faster and more efficient.

2. Claim 17 rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki (U.S. 6,573,972) in view of Tamatani et al. (U.S. 5,893,625).

Sasaki discloses a liquid crystal display having two seal patterns. Note in figure 8A, the primary seal pattern 13 and secondary seal pattern 12. See column 14, lines

25-41. Sasaki discloses forming the seal patterns using a known screen-printing method. See column 14, lines 48-51.

Tamatani discloses that the known screen-printing method involves holding the substrate under a screen plate comprising a mask and rubbing the substrate over the mask with a roller having the sealant applied to it. See column 1, lines 51-59. It would have been obvious to one of ordinary skill in the art at the time of invention to use this method since it was known to be reliable and cost-effective.

Sasaki does not disclose a first printer for forming the first seal pattern and a second printer for forming the second seal pattern. Sasaki discloses that the seal pattern 13 is formed from epoxy-system thermosetting resin and that the seal pattern 12 is formed from an acrylic-system UV-curing resin. See column 14, lines 52-55.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to provide two different seal printers since the two seal patterns are made from different kinds of resin, and sequentially providing each type of resin to one seal printer would have been inefficient.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Y. Chung whose telephone number is (571) 272-2288. The examiner can normally be reached Monday thru Friday from 8:30 am to 5:00 pm. If successive attempts to contact the examiner are unsuccessful, the examiner's supervisor David C. Nelms can be reached at (571) 272-1787.

David Nelms
Supervisory Patent Examiner
Technology Center 2800